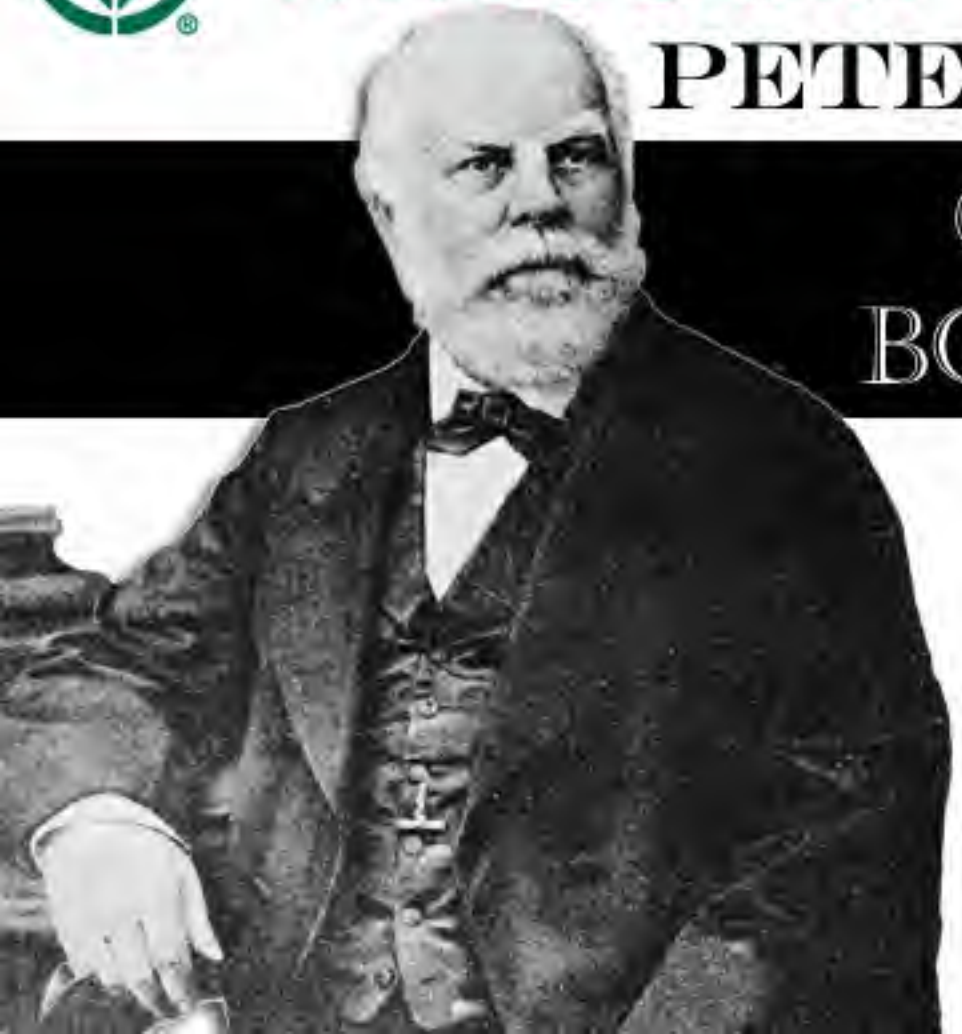
Missouri Botanical Garden
Peter H. Raven Library

George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

7 sh

A. amabilis

0 1 2 3 4 5 6 7 8 9 10
cm
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MISSOURI BOTANICAL GARDEN

12615

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Aëis amabilis Dec 27 1877

f. de Mc Neb, in fig. 3a

S Lyall, Lake Chilukweyak

Brit. Columbia

× 30

0 1 2 3 4 5 6 7 8 9 10
cm
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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

GEO. B. FRESE
DRUGGIST & PHARMACIST
3005 OLIVE ST. NEAR GARRISON AVE.
ST. LOUIS, MO.

DR. GEO. ENGELMANN,
OFFICE- 2015 St. 5th St. RESIDENCE 3003 Locust St.

0 1 2 3 4 5 6 7 8 9 10
cm
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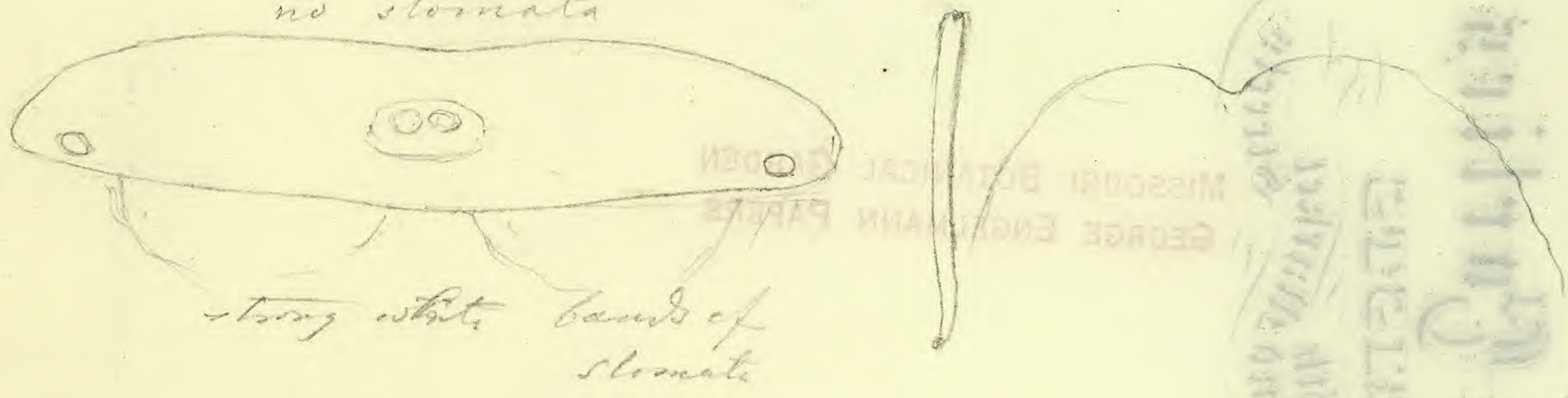
"Abies amabilis" correct! Octob 3rd 1875

Hook Fl. N.A. 1869.

"A. grandis", Dr Suksdorf is exactly the same



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Lüdtke & Curtis
DRUGGISTS
Smith-williams Building, Quincy, Ill. Corner Fifth & Market Streets

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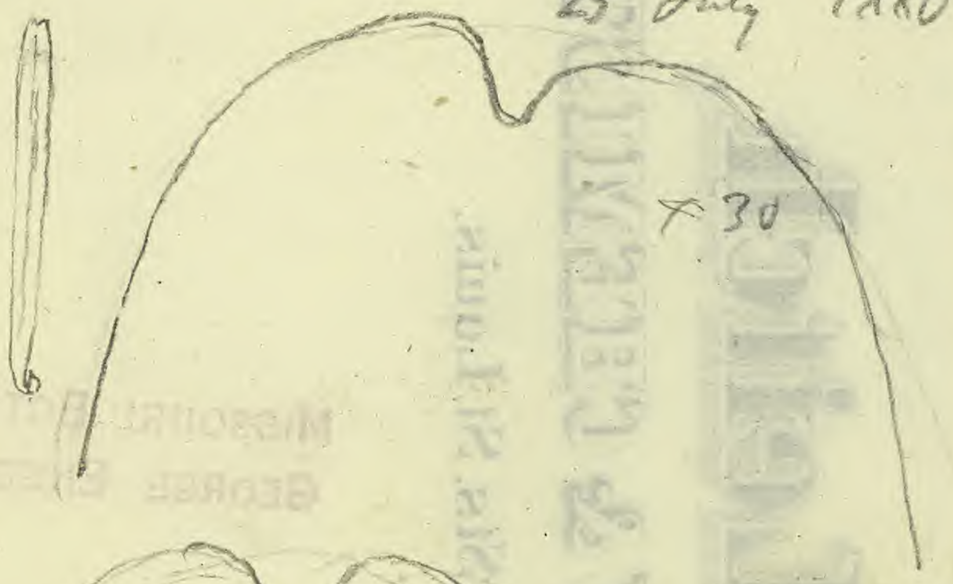
Abies amabilis
sapling 2 feet high, Silver Mountain
Fraser River B.C.
July 5 1881

25 July 1880

×30

scarcely any hypoderm cells
only on the edges
vessel bundles almost united



×30

long leaf of a
young tree Coloma
Cascade Mts
Aug 4 1880
Sargent

5–11 series of stomata

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cm
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Alex. Leitch,

APOTHECARY & CHEMIST,

Cor 4th & Olive Sts. St. Louis.

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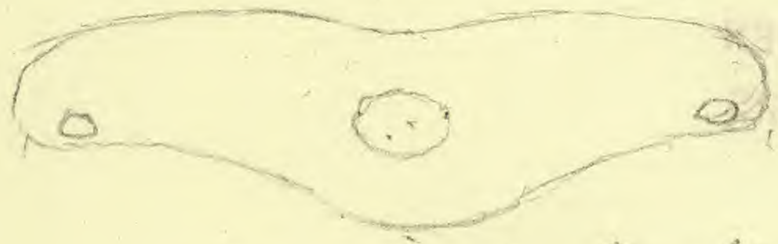
"Alsia acuminata"

Sept 30 1875

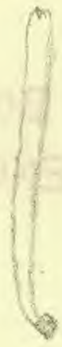
Colombia in Bourglas, Hb Kew

x 30



almost no stomata

2 bands of stomata



a very few stomata in the groove on upper side near top

Missouri Botanical Garden
George Engelmann Herbarium

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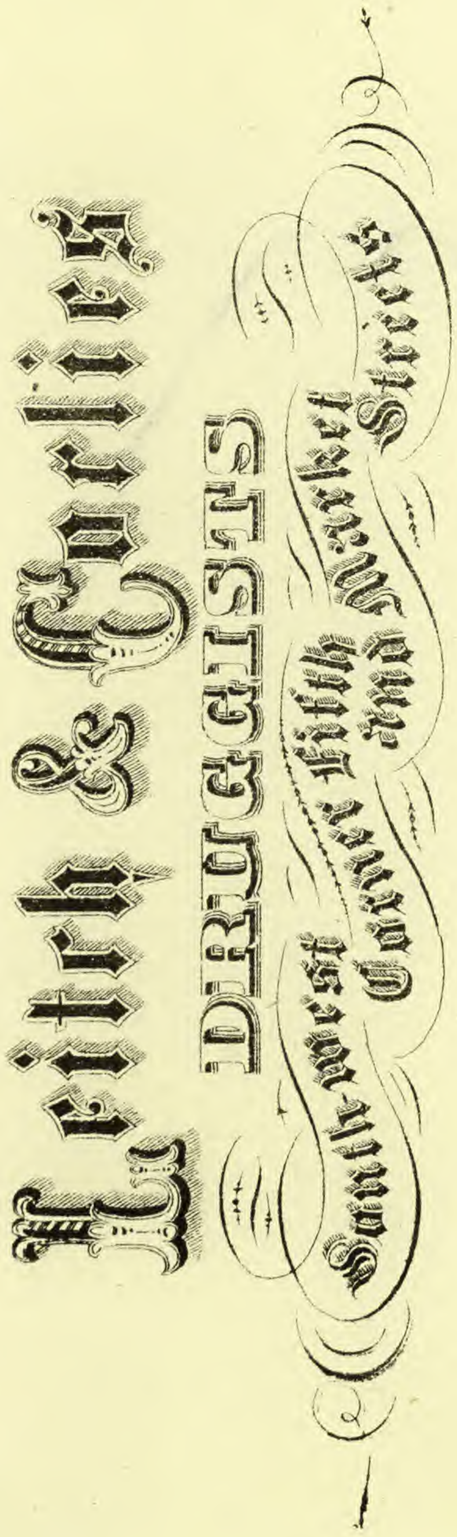

0 1 2 3 4 5 6 7 8 9 10
cm
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Abies amabilis

leaves of fertile shoot

July 5 1881

Fraser River

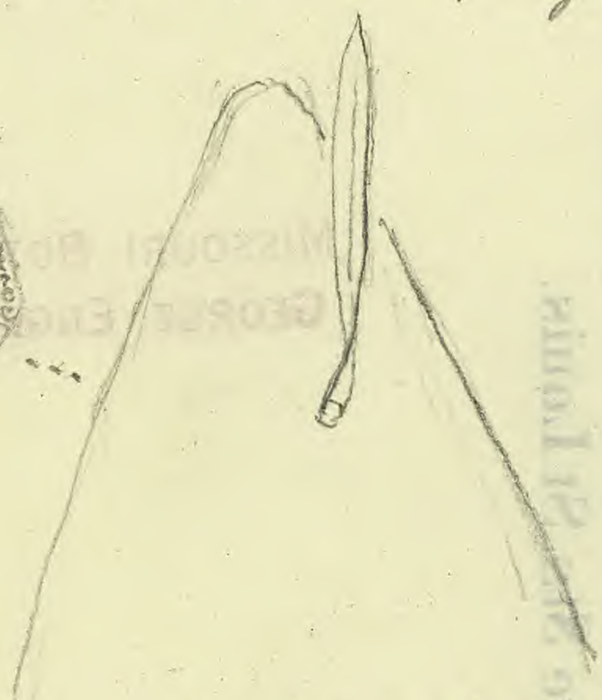
Lilooet Mts

July 25 1880

20 : 26 mm

21 : 27

×30



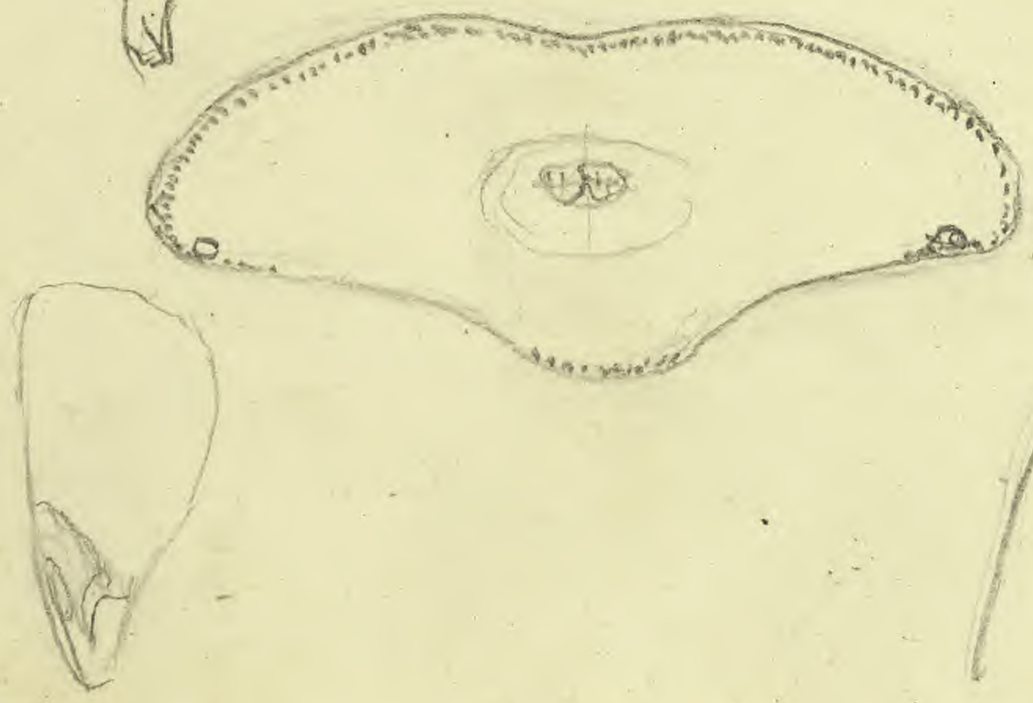
leaf of old tree

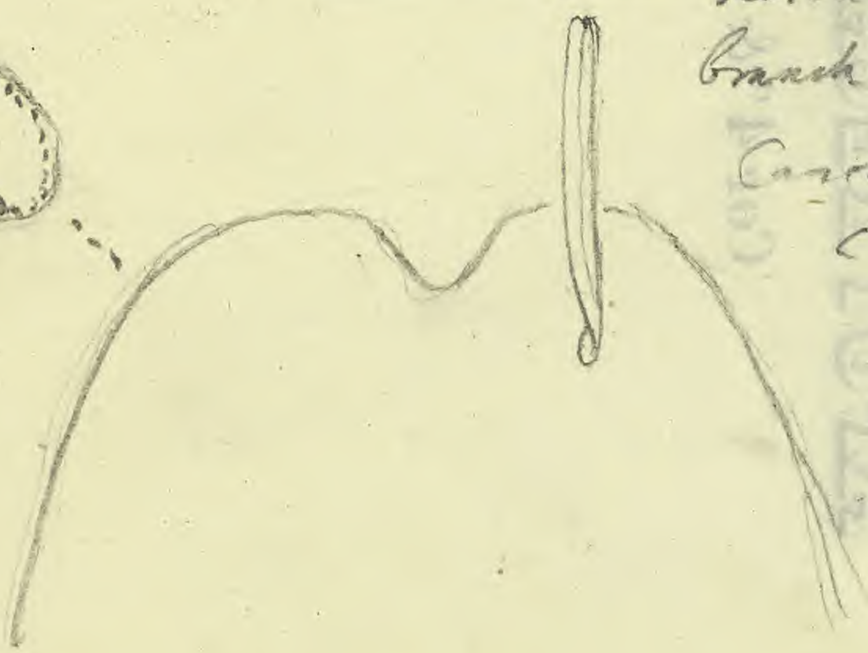
~~sterile~~, ~~shady~~ Cone

Branch (photographed

Cascades Aug 4

CSS 1880





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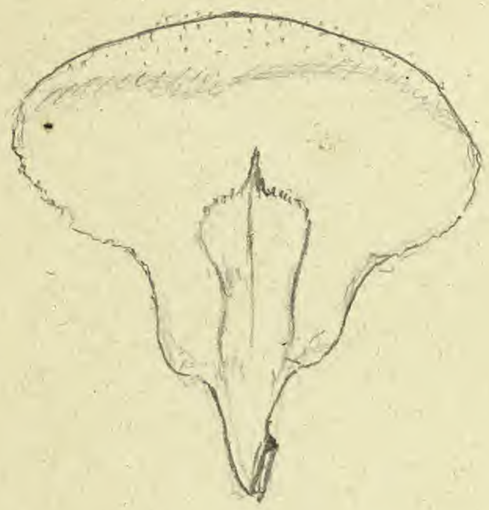
"Abies lasiocarpa" Sept 6 '1870

A. amabilis



Oregon & Newberry, 1856; published 1857 as A. amabilis

scales 28 : 22 mm (13/2 : 10 Lin
2 1/2 : 2

scales very immature (almost like rudiments)

seed nearly mature, large.

Do they belong together?

Cone said by Newberry to be 6 x 2 1/2 inches

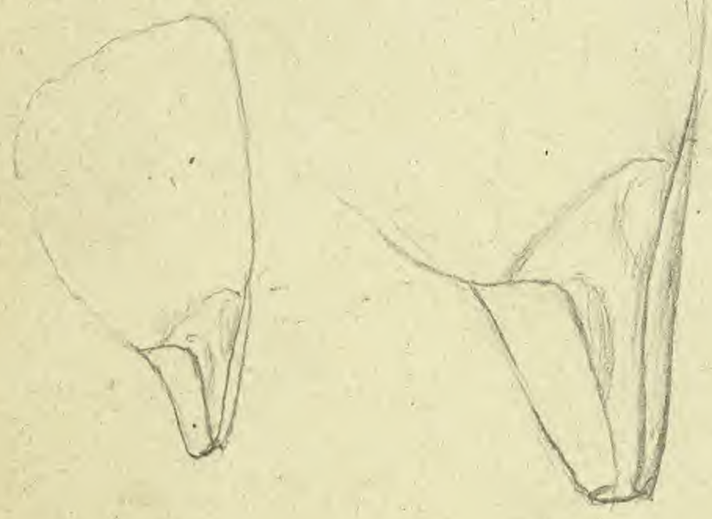
seed 10-11 "'long 5-5 1/2" wide

thrice as long as wide, triangular

exterior valve of wing square

covering over one half of the exterior

edge of seed



This is the same as the one figured by Newberry & Col Williams Pac. R. Rep. 6 Bot p. 51 as A. amabilis, "foliis supra obscure viridi, subtus argenteis,

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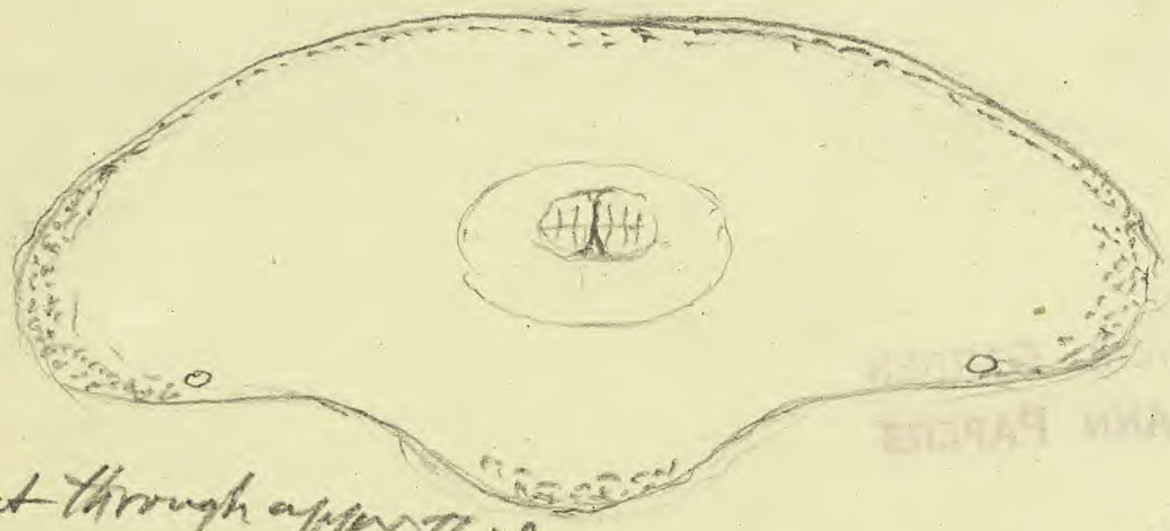
Abies amabilis

leader of an old tree

July 5th 1881

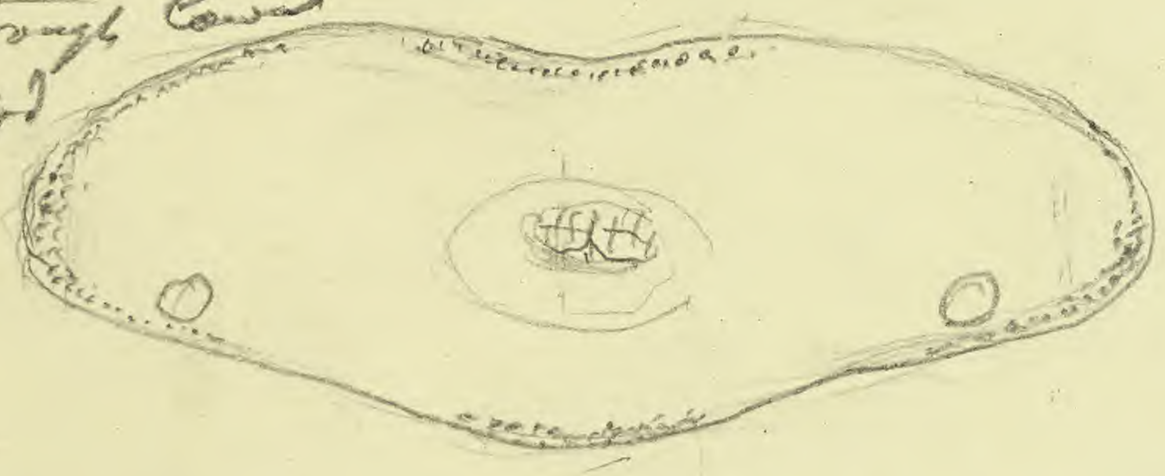
Silver Mountain B.C.

July 24 1880

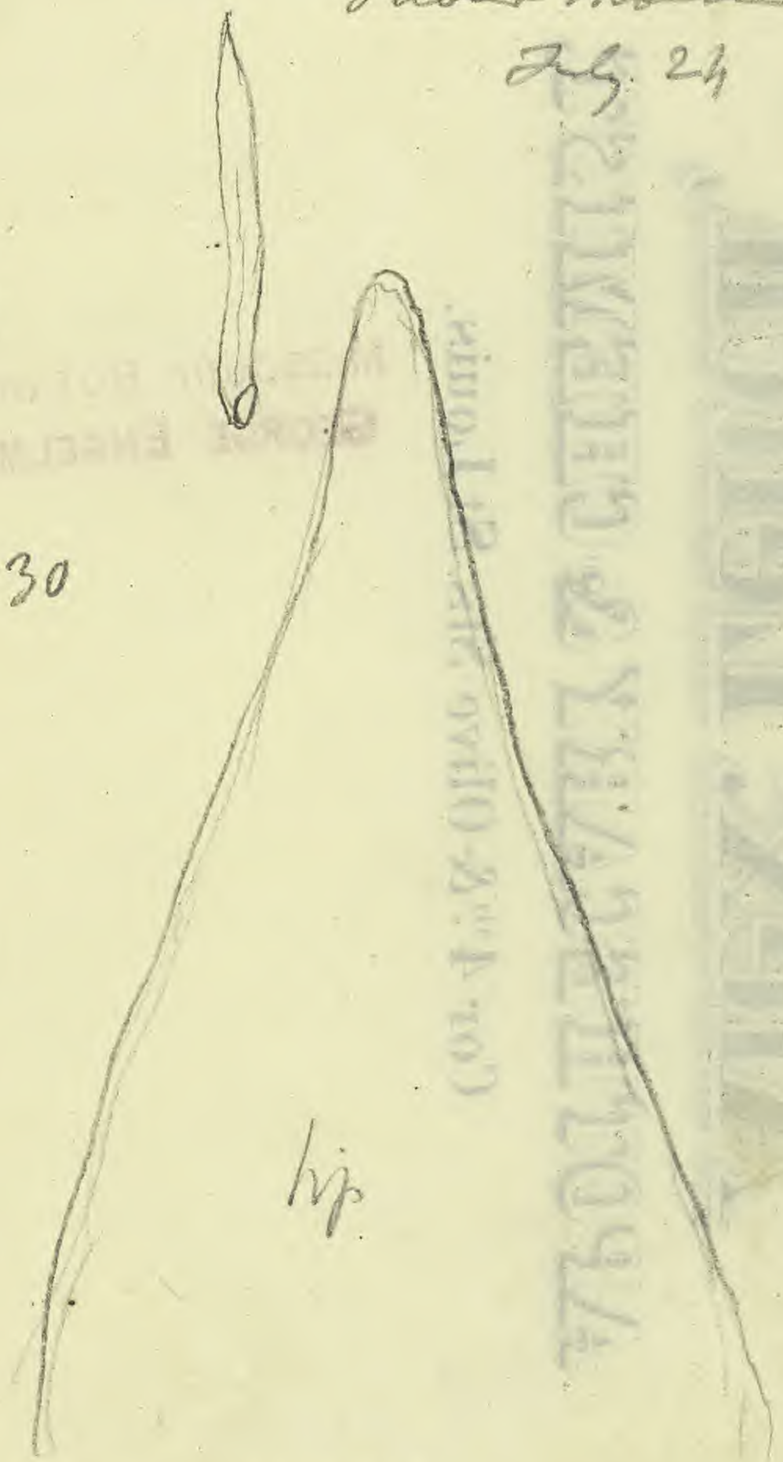


I cut through upper Third

×30



Through Center Third



hip

4-7 Colgledon, Mass

12622

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APOTHECARY & CHEMIST,

Cor 4th & Olive Sts. St. Louis.

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Abies amabilis
Mountains of Mt
Coquahalla Mt
Aug 1880 Columbia

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cm
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Abies amabilis

Mountains of the Columbia

British Columbia, Oregon

C. S. Sargent *Aug 3 1890.*

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Abies amabilis
C. S. Sargent Aug 3 1890 Mountains south of the Cascades of Columbia Oregon

Missouri Botanical Garden
copyright reserved
cm 0 1 2 3 4 5 6 7 8 9 10

0 1 2 3 4 5 6 7 8 9 10
cm
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